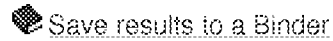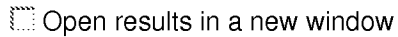**P⊙RTAL**
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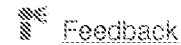
software compatibility
Terms used: software compatibility

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1   Direct-dependency-based software compatibility testing
    Il-Chul Yoon, Alan Sussman, Atif Memon, Adam Porter
    November 2007 ASE '07: Proceedings of the twenty-second IEEE/ACM international
                conference on Automated software engineering
    Publisher: ACM
    Full text available: 📄 pdf(466.80 KB)   Additional Information: full citation, abstract, references, index terms

    Bibliometrics: Downloads (6 Weeks): 16,   Downloads (12 Months): 42,   Citation Count: 0

        Software compatibility testing is an important quality assurance task aimed at ensuring
        that component-based software systems build and/or execute properly across a broad
        range of user system configurations. Because each configuration can involve multiple ...

        Keywords: compatibility testing, component-based software system

2   Software compatibility and the law
    Pamela Samuelson
    August 1995 Communications of the ACM,   Volume 38 Issue 8
    Publisher: ACM
    Full text available: 📄 pdf(195.39 KB)   Additional Information: full citation, references, index terms

    Bibliometrics: Downloads (6 Weeks): 11,   Downloads (12 Months): 83,   Citation Count: 0

3   Compatibility and Regression Testing of COTS-Component-Based Software
    Leonardo Mariani, Sofia Papagiannakis, Mauro Pezze
    May 2007 ICSE '07: Proceedings of the 29th international conference on Software
                Engineering
    Publisher: IEEE Computer Society
    Full text available: 📄 pdf(243.35 KB)   Additional Information: full citation, abstract, references, index terms

    Bibliometrics: Downloads (6 Weeks): 19,   Downloads (12 Months): 308,   Citation Count: 0

        Software engineers frequently update COTS components integrated in component-based
        systems, and can often chose among many candidates produced by different vendors.
        This paper tackles both the problem of quickly identifying components that are
        syntactically ...

4   Compatibility, standards, and software production
    Giancarlo Succi, Andrea Valerio, Tullio Vernazza, Gianpiero Succi
    December 1998 StandardView,   Volume 6 Issue 4
    Publisher: ACM

Full text available: pdf(174.41 KB)   Additional Information: full citation, references

Bibliometrics: Downloads (6 Weeks): 11,   Downloads (12 Months): 73,   Citation Count: 0

5   A compatibility software tool for use with separately compiled languages
Darrel C. Ince
September 1983 ACM SIGPLAN Notices,   Volume 18 Issue 9
Publisher: ACM
Full text available: pdf(254.08 KB)   Additional Information: full citation, references, cited by

Bibliometrics: Downloads (6 Weeks): 1,   Downloads (12 Months): 6,   Citation Count: 2

6   A Comparison of OO and Reactive Based Specifications on the Design of
Embedded Systems
S. A. Ito, J. C. B. de Mattos, L. Carro, S. S. Toscani
September 2000 SBCCI '00: Proceedings of the 13th symposium on Integrated circuits and
systems design
Publisher: IEEE Computer Society
Full text available: Publisher Site   Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): n/a,   Downloads (12 Months): n/a,   Citation Count: 0

The growing complexity of embedded systems has claimed more abstract approaches in
order to apply some kind of system-level design methodology. Java is a natural
candidate for system design language, due to its well known software compatibility and
object-oriented ...

Keywords: Java, OO based specifications, embedded systems, high level synthesis,
modeling facilities, object-oriented methods, reactive based specifications, reactive
synchronous languages, simulation capability, software compatibility, specific domain
applications, synthesis results, system-level design methodology

7   Dynamic reconfiguration with binary translation: breaking the ILP barrier with
software compatibility
Antonio Carlos S. Beck, Luigi Carro
June 2005 DAC '05: Proceedings of the 42nd annual conference on Design automation
Publisher: ACM
Full text available: pdf(811.10 KB)   Additional Information: full citation, abstract, references, cited by, index
terms

Bibliometrics: Downloads (6 Weeks): 2,   Downloads (12 Months): 51,   Citation Count: 1

In this paper we present the impact of dynamically translating any sequence of
instructions into combinational logic. The proposed approach combines a ...

Keywords: binary translation, java, power consumption, reconfigurable processors

8   Compiler-Managed Software-based Redundant Multi-Threading for Transient Fault
Detection
Cheng Wang, Ho-seop Kim, Youfeng Wu, Victor Ying
March 2007 CGO '07: Proceedings of the International Symposium on Code Generation and
Optimization
Publisher: IEEE Computer Society
Full text available: pdf(308.36 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 10,   Downloads (12 Months): 53,   Citation Count: 0

As transistors become increasingly smaller and faster with tighter noise margins,

modern processors are becoming increasingly more susceptible to transient hardware faults. Existing Hardware-based Redundant Multi-Threading (HRMT) approaches rely mostly ...

9   The iPSC/2 node architecture

P. Close

January 1988 Proceedings of the third conference on Hypercube concurrent computers and applications: Architecture, software, computer systems, and general issues - Volume 1, Volume 1

Publisher: ACM

Full text available: pdf(567.68 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 5, Citation Count: 12

Feedback from users of the first generation ISP system plus the development and availability of new VLSI based technologies drove the design of the iPSC/2 node. The new node design was broadly governed by the following goals: Provide true ...

10   Multisystem processing with APL

J. F. Sencindiver, D. H. Steinbrook

June 1979 ACM SIGAPL APL Quote Quad, Volume 9 Issue 4

Publisher: ACM

Full text available: pdf(200.70 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 9, Citation Count: 0

Interfaces (both ASCII and EBCD) are presented which allow an IBM5100 or IBM5110 with APL to communicate as an intelligent terminal with a host APL timesharing system. The two concurrently active workspaces are coordinated through the Serial I/O Adapter ...

11   Multisystem processing with APL

J. F. Sencindiver, D. H. Steinbrook

May 1979 APL '79: Proceedings of the international conference on APL: part 1

Publisher: ACM

Full text available: pdf(200.70 KB)   Additional Information: full citation, abstract, references, index terms

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Interfaces (both ASCII and EBCD) are presented which allow an IBM5100 or IBM5110 with APL to communicate as an intelligent terminal with a host APL timesharing system. The two concurrently active workspaces are coordinated through the Serial I/O Adapter ...

12   A formal basis for architectural connection

Robert Allen, David Garlan

July 1997 ACM Transactions on Software Engineering and Methodology (TOSEM), Volume 6 Issue 3

Publisher: ACM

Full text available: pdf(463.23 KB)   Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 227, Citation Count: 148

As software systems become more complex, the overall system structure—or software architecture—becomes a central design problem. An important step toward an engineering discipline of software is a formal basis for describing and analyzing ...

Keywords: WRIGHT, formal models, model-checking, module interconnection, software analysis

13 Architecting families of software systems with process algebras

Marco Bernardo, Paolo Ciancarini, Lorenzo Donatiello
October 2002 ACM Transactions on Software Engineering and Methodology (TOSEM),
Volume 11 Issue 4
Publisher: ACM

Full text available: pdf(358.61 KB) Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 91, Citation Count: 5

Software components can give rise to several kinds of architectural mismatches when assembled together in order to form a software system. A formal description of the architecture of the resulting component-based software system may help to detect such ...

Keywords: Architectural mismatch detection, architectural styles, process algebras, software architectures

14 Software management

Cindy Dooling, Jeff White, Cathy Lee
November 2006 SIGUCCS '06: Proceedings of the 34th annual ACM SIGUCCS conference on User services
Publisher: ACM

Full text available: pdf(66.43 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 77, Citation Count: 0

Software management problems? In this session presenters will discuss and demonstrate how Pima Community College (PCC) reigned in control of the software on 5,550 desktop and portable computers located over six campuses, two district offices, and nine ...

Keywords: administrative support, audit, communication, computers, licenses, principles, software management, training

15 Towards the issues in architectural support for protection of software execution

Weidong Shi, Hsien-Hsin S. Lee, Chenghuai Lu, Mrinmoy Ghosh
March 2005 ACM SIGARCH Computer Architecture News, Volume 33 Issue 1
Publisher: ACM

Full text available: pdf(436.30 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 68, Citation Count: 2

Recently, there is a growing interest in the research community to employ tamper-resistant processors for software protection. Many of these proposed systems rely on a specially tailored secure processor to prevent 1) illegal software duplication, 2) ...

Keywords: attack, copy protection, encryption, security, tamper resistance

16 Applying the Value/Petri process to ERP software development in China

LiGuo Huang, Barry Boehm, Hao Hu, Jidong Ge, Jian Lü, Jian Lü, Cheng Qian, Cheng Qian
May 2006 ICSE '06: Proceedings of the 28th international conference on Software engineering
Publisher: ACM

Full text available: pdf(4.41 MB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 24, Downloads (12 Months): 215, Citation Count: 0

Commercial organizations increasingly need software processes sensitive to business value, quick to apply, and capable of early analysis for subprocess consistency and compatibility. This paper presents experience in applying a lightweight synthesis ...

Keywords: ROI, cost, object petri nets (OPN), software process formalization, software process simulation, software quality, value

17 The optimal software licensing policy under quality uncertainty

Jie Zhang, Abraham Seidmann

September 2003 ICEC '03: Proceedings of the 5th international conference on Electronic commerce

Publisher: ACM

Full text available: pdf(237.20 KB) Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 67, Citation Count: 0

A new service model has emerged which delivers application software and services over the Web on a lease or subscription basis. Our paper studies the optimal licensing policy of a software vendor that uses that business model. We look at software vendors ...

Keywords: network externality, price discrimination, risk, software licensing, upgrade compatibility

18 Compatibility models

M. Bechter, M. Blum, H. Dettmering, B. Stützel

May 2006 SEAS '06: Proceedings of the 2006 international workshop on Software engineering for automotive systems

Publisher: ACM

Full text available: pdf(143.58 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 25, Citation Count: 1

With the possibility to configure new cars completely individual almost no premium-class vehicle with the same configuration exists twice. As a consequence the cars differ not only in design but also have different functional features as well, which ...

Keywords: automotive software, compatibility, specification

19 ReBA: refactoring-aware binary adaptation of evolving libraries

Danny Dig, Stas Negara, Vibhu Mohindra, Ralph Johnson

May 2008 ICSE '08: Proceedings of the 13th international conference on Software engineering

Publisher: ACM

Full text available: pdf(564.21 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 0, Citation Count: 0

Although in theory the APIs of software libraries and frameworks should be stable, they change in practice. This forces clients of the library API to change as well, making software maintenance expensive. Changing a client might not even be an option ...

Keywords: api compatibility, component reuse, libraries, refactoring

20 POLUS: A POwerful Live Updating System

Haibo Chen, Jie Yu, Rong Chen, Binyu Zang, Pen-Chung Yew

May 2007 ICSE '07: Proceedings of the 29th international conference on Software Engineering

Publisher: IEEE Computer Society

Full text available: pdf(220.21 KB) Additional Information: full citation, abstract, references, index terms

This paper presents POLUS, a software maintenance tool capable of iteratively evolving running software into newer versions. POLUS's primary goal is to increase the dependability of contemporary server software, which is frequently disrupted either by ...

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